

JC07 Rec'd PCT/PTO 29 APR 2005 PATENT
Attorney Docket No. 00798-04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Brian H. Augustine, et al.	}	Customer No.	34444
Serial No.	10/520,763	}	Art Unit:	Unknown
Filed:	January 10, 2005	}	Examiner:	Unknown
Title:	Hybrid Polymers for Functional Tuning of Microfluidic Device Surfaces			

Certificate of Mailing Under 37 CFR §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service using First Class Service under 37 C.F.R. § 1.8 on the date indicated below and is addressed to Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date: April 28, 2005


Sue Ann Carr

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97(b)(3)**

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith please find an Information Disclosure Statement for the above identified application, consisting of Form PTO/SB/08A along with eleven (11) copies of U.S. patents and four (4) copies of foreign patents, Form PTO/SB/08B, and copies of thirteen (13) references. The Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits per 37 C.F.R. 1.97(b)(3).

Applicants respectfully submit that the filing of this Information Disclosure Statement is not a representation that a prior art search was conducted or that the information cited is material to the patentability of the invention as defined in 37 CFR § 1.56, or that any cited document is prior art. Applicants request that the Examiner consider the references, determine their relevance to the present application, if any, and list the references on the face of any patent which may issue from the present application. Applicants further request that an initialed copy of Forms PTO/SB/08A and PTO/SB/08B be returned to applicants.

No fees are believed to be due for this submission. If this belief is in error, the Commissioner is hereby authorized to charge any fees due for this submission to Deposit Account No. 50-0423, as well as credit any refunds.

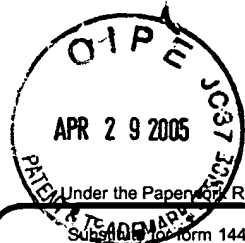
Respectfully submitted,



Rodney L. Sparks
Registration No. 53,625

April 28, 2005

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10 Rec'd PCT/PTO 29 APR 2005

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	10/520.763
Filing Date	01/10/2005
First Named Inventor	Brian H. Augustine
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	00798-04

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
	1	US-	6,653,365 B2	11/25/2003	Jia	Entire Document
	2	US-	6,586,548 B2	07/01/2003	Bonafini, Jr., et al.	Entire Document
	3	US-	6,576,345 B1	06/10/2003	Van Cleemput, et al.	Entire Document
	4	US-	6,558,455 B1	05/06/2003	Sammons, et al.	Entire Document
	5	US-	6,326,083 B2	12/04/2001	Yang, et al.	Entire Document
	6	US-	5,561,208	10/01/1996	Takahashi, et al.	Entire Document
	7	US-	5,376,252	12/27/1994	Ekström, et al.	Entire Document
	8	US-	4,510,257	04/09/1985	Lewis, et al.	Entire Document
	9	US-	2002/0182541 A1	12/05/2002	Gonsalves	Entire Document
	10	US-	2002/0128414 A1	09/12/2002	James, Jr., et al.	Entire Document
	11	US-	2002/0029968 A1	03/14/2002	Tan, et al.	Entire Document
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)						
	12	WO	02/08744	A2	01/31/2002	ACLARA Biosciences, Inc.	Entire Document	
	13	WO	01/72885	A1	10/04/2001	Hybrid Plastics, LLP	Entire Document	
	14	EP	1 036 808	B1	12/18/2002	Dow Corning Asia, Ltd.	Entire Document	
	15	EP	1 036 808	A2	09/20/2000	Dow Corning Asia, Ltd.	Entire Document	

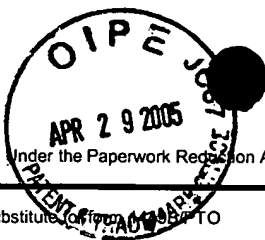
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/520,763		
		Filing Date	01/10/2005		
		First Named Inventor	Brian H. Augustine		
		Art Unit	Unknown		
		Examiner Name	Unknown		
Sheet	1	of	2	Attorney Docket Number	00798-04

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A	CHEN, Y.-H., et al., (2000). "Analysis of DNA fragments by microchip electrophoreses fabricated on poly(methylmethacrylate) substrates using a wire-imprinting method", Electrophoresis, Vol. 21, pp. 165-170.	
	B	DANG, F., et al., (2003). "Ultrafast analysis of oligosaccharides on microchip with light-emitting diode confocal fluorescence detection", Electrophoresis, Vol. 24, pp. 714-721.	
	C	GALLOWAY, M., et al., (2002). "Contact Conductivity Detection in Poly(methylmethacrylate)-Based Microfluidic Devices for Analysis of Mono- and Polyanionic Molecules", Anal. Chem., Vol. 74, pp. 2407-2415.	
	D	GRASS, B., et al., (2001). "A new PMMA-microchip device for isotachopheresis with integrated conductivity detector", Sensors and Actuators B, Vol. 72, pp. 249-258.	
	E	LEE, G.-B., et al., (2001). "Microfabricated plastic chips by hot embossing methods and their applications for DNA separation and detection", Sensors and Actuators B, Vol. 75, pp. 142-148.	
	F	LICHTENHAN, J.D., et al., (1995). "Linear Hybrid Polymer Building Blocks: Methacrylate-Functionalized Polyhedral Oligomeric Silsesquioxane Monomers and Polymers", Macromolecules, Vol. 28, pp. 8435-8437.	
	G	LIN, Y.-C., et al., (2001). "Electroporation microchips for continuous gene transfection", Sensors and Actuators B, Vol. 79, pp. 137-143.	
	H	SOPER, S.A., et al., (1999). "Nanoliter-scale sample preparation methods directly coupled to polymethylmethacrylate-based microchips and gel-filled capillaries for the analysis of oligonucleotides", J. of Chromatography A, Vol. 853, pp. 107-120.	
	I	SUNG, W.-C., et al., (2001). "Plastic microchip electrophoresis for genetice screening: The analysis of polymerdase chain reactions products of fragile X(CGG)n alleles", Electrophoresis, Vol. 22, pp. 1188-1193.	
	J	WANG, J., et al., (2002). "Towards disposable lab-on-a-chip: Poly(methylmethacrylate) microchip electrophoresis device with electrochemical detection", Electrophoresis, Vol. 23, pp. 596-601.	

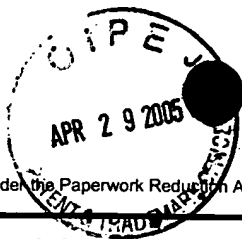
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Sheet	2	of	2	Attorney Docket Number	00798-04

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	K	XU, F., et al. (2002). "DNA separation by microchip electrophoresis using low-viscosity hydroxypropyl-methylcellulose-50 solutions enhanced by polyhydroxy compounds", Electrophoresis, Vol. 23, pp. 3608-3614.	
	L	ZHANG, W., et al., (2002). "Effect of Methyl Methacrylate/Polyhedral Oligomeric Silsesquioxane Random Copolymers in Compatibilization of Polystyrene and Poly(methyl methacrylate) Blends", Macromolecules, Vol. 35, pp. 8029-8038.	
	M	PUMERA, M., et al., (2002). "Contactless Conductivity Detector for Microchip Capillary Electrophoresis", Anal. Chem., Vol. 74, pp. 1968-1971.	

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